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IAP5 Rec'd PCT/PTO 31 JUL 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No.	•	Unassigned
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Applicant : William Ogilvie

Filed

Group Art Unit:

Examiner

Docket No. : GJE-004

Customer No.: 021884

Title : METHOD AND APPARATUS FOR THE MANUFACTURE OF

ELECTRIC CIRCUITS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

1a. Sorm PTO-1449.

1b. \(\text{\omega} \) Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications for applications filed on or after June 30, 2003.

1.c. English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.

1d.
English language translation (complete, Abstract, or relevant portion(s)) attached to non-English language publications as indicated on the attached PTO Form PTO-1449.

1e.

Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.

1f. List of Copending Applications (ATTACHMENT 1(f), hereto).

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List of Additional Submitted Documents (ATTACHMENT TO), hereto, L 2006 1g. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(b): 2. (Check either Item 2a or 2b or 2c or 2d) Within three months of the filing date of a national application; Ø 2a. Within three months of the date of entry of the national stage as set forth in § 2b. 1.491 in an international application. Before the mailing of a first Office Action on the merits; or 2c. Before the mailing of a first Office Action after the filing of a Request for 2d. Continued Examination under § 1.114. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND (Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months) The § 1.97 (e) Statement in Item 5 below is applicable; OR 3a. The \$180.00 fee set forth in 37 CFR § 1.17(p) is: 3b. enclosed. to be charged to Deposit Account No. 01-2221. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND The § 1.97(e) Statement in Item 5 below is applicable; AND 4a. The \$180.00 fee set forth in 37 CFR § 1.17(p) is: 4b. enclosed. to be charged to Deposit Account No. 01-2221. ☐ Statement under § 1.97(e) (applicable if Item 3a or 4a is checked) (Check either Item 5a or 5b) In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of 5a. information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 5Ъ. In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information

Disclosure Statement.

6.	☐ This is	a conti	nuation/division/continuation-in-part application under 37 CFR § 1.53(b). (Check appropriate Items 6a and/or 6b).
	6a.		Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the
			subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).
	6Ь.		Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.
7.	☐ This is	a Requ	est for Continued Examination under 37 CFR § 1.114. (Check either Item 7a or 7b)
	7a.		The Issue Fee has not been paid.
	7b.		A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.
8.	☐ This is	a Supp	lemental Information Disclosure Statement (Check either Item 8a or 8b)
	8a.		This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be
	8b.		considered as if properly filed on This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed
9.	\boxtimes	In acco	ordance with 37 CFR § 1.98, concise explanation of what is presently understood
· ·			he relevance of each non-English publication is: (Check appropriate Items 9a, 9b, 9c and/or 9d)
	9a.		satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of the Relevance, 8th Ed., Rev. 2)
	9b.		set forth in the application.
	9c.		satisfied for the non-English language publication(s) indicated on the attached Form PTO-1449 as having an English language translation (complete or relevant portion(s)) attached thereto.
	64		andosed as Attachment (1(a) horsts

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10. No admission is made that the information cited in this Statement is, or is considered to be, 2006 material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account 01-2221.

Respectfully submitted,

John L. Welsh

Registration No. 33,621

WELSH & FLAXMAN LLC 2000 Duke Street, Ste. 100 Alexandria, VA 22314 (703) 920-1122

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PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

William Ogilvie

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Filing Date

First Named Inventor

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Art Unit (Use as many sheets as necessary) **Examiner Name** Attorney Docket Number **GJE-004** Sheet 1

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 6074135	06/13/2000	Tapphorn et al.	
		^{US-} 6139913	10/31/2000	Van Steenkiste et al.	
		us- 6402050	06/11/2002	Kashirin et al.	
		^{US-} 5302414	04/12/1994	Alkhimov et al.	
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	FORE	IGN PATENT DOCL	JMENTS		
 Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
	Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
	EP1365637	11/26/2003	Delphi Technologies Inc.		
	DE10007981	11/02/2000	Yazaki Corp.		
	JP01084690	03/29/1989	Matsushita Electric Works		
	WO 00/43571	07/27/2000	Nikitin Peter Vasilievich		V
	WO 02/068245	09/06/2002	Leoni Bordnetz Systeme GM		1
	EP0484533	05/13/1992	Inst Teoreticheskoi		7

Examiner	(100 0 000 11	Date	00/04/0040
Signature	/Brian Talbot/	Considered	06/01/2010

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not Considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senal number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2

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Approved for use through 09/30/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

GJE-004

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Complete if Known 587912

Application Number
Unassigned

Filting Date
First Named Inventor

Art Unit
Examiner Name

Attorney Docket Number

Examiner	Cite	Document Number	U. S. PATENT D	Name of Patentee or	Pages Columns Lines Where		
Initials*	No.1	No.1	No.1	Number-Kind Code ^{2 (d known)}	MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		FORE	IGN PATENT DOCU	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (il known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
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Examiner Signature	/Brian Talbot/	Date Considered	06/01/2010

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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			t of 1995, no persons ar	re required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known		
Substitute for form 1449/PTO				Application Number	Unassigned 10/587912	
INF	ORMATION	N DIS	CLOSURE	Filing Date		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	William Ogilvie	
				Art Unit		
	(Use as many sh	eets as n	ecessary)	Examiner Name		
Sheet	3	of	3	Attorney Docket Number	GJE-004	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		McCune RC et al., "Characterization of Copper Layers Produced by Cold Gas-Dynamic Spraying", JOURNAL OF THERMAL SPRAY TECHNOLOGY, Vol. 9, No. 1, March 2000 pgs. 73-82	

Examiner		Date	06/01/2010	
Signature	/Brian Talbot/	Considered	00/01/2010	

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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.